

# Anjali Kantharuban

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## Education

Carnegie Mellon University	August 2023 - Present
PhD Language and Information Technology	
University of Cambridge	October 2022 - June 2023
MPhil Theoretical and Applied Linguistics by Thesis	
University of California, Berkeley	August 2018 - May 2022
BA Linguistics & BA Computer Science with Honors	GPA: 3.96

## Research Experience

Cambridge Language Technology Laboratory	October 2022 - June 2023
Research Assistant	<i>Advised by Anna Korhonen</i>
<ul style="list-style-type: none"><li>Involved in preparing a grant proposal for the Cambridge-LMU Strategic Partnership for 40,000 euros for the purpose of dialectal data collection.</li><li>Analyzed the performance gap between regional dialects of various languages across machine translation and automatic speech recognition. [2]</li></ul>	
Berkeley Natural Language Processing Group	March 2020 - June 2022
Undergraduate Researcher	<i>Advised by Dan Klein and Trevor Darrell</i>
<ul style="list-style-type: none"><li>Used PyTorch to implement networks for classification, generation, and embedding tasks over datasets such as ALFRED and BabyAI.</li><li>Developed a novel data augmentation technique for adapting imitation learning instruction following agents to out-of-domain instructions, primarily those which explicitly contain multiple goals.</li></ul>	
MIT Language & Intelligence Lab	June 2021 - June 2022
Undergraduate Researcher (REU)	<i>Advised by Jacob Andreas</i>
<ul style="list-style-type: none"><li>Expanded work regarding lexicon learning for sequence modeling to low resource languages with structural differences from English. [1]</li></ul>	

## Publications

- [1] **Stereotype or Personalization? User Identity Biases Chatbot Recommendations**  
Anjali Kantharuban\*, Jeremiah Milbauer\*, Maarten Sap, Emma Strubell, Graham Neubig  
Findings of ACL, 2025

- [2] **Pangea: A Fully Open Multilingual Multimodal LLM for 39 Languages**  
 Xiang Yue\*, Yueqi Song\*, Akari Asai, Seungone Kim, Jean de Dieu Nyandwi, Simran Khanuja, Anjali Kantharuban, Lintang Sutawika, Sathyanarayanan Ramamoorthy, Graham Neubig  
 ICLR, 2025
- [3] **Quantifying the Dialect Gap in Large Language Models and its Causes Across Languages**  
Anjali Kantharuban, Ivan Vulić, Anna Korhonen  
 Findings of EMNLP, 2023.
- [4] **Counting the Bugs in ChatGPT's Wugs: A Multilingual Investigation into the Morphological Capabilities of a Large Language Model**  
 Leonie Weissweiler, Valentin Hofmann, Anjali Kantharuban, Anna Cai, Ritam Dutt, Amey Hengle, Anubha Kabra, Atharva Kulkarni, Abhishek Vijayakumar, Haofei Yu, Hinrich Schuetze, Kemal Oflazer, David R Mortensen  
 EMNLP, 2023.
- [5] **One-Shot Lexicon Learning for Low-Resource Machine Translation**  
Anjali Kantharuban, Jacob Andreas  
 Presented at Widening Natural Language Processing Workshop, EMNLP, 2021.

## Teaching Experience

Subword Modeling at Carnegie Mellon University	January 2024 - May 2024
Data Structures, CS61B at UC Berkeley	August 2019 - May 2022
Head Teaching Assistant	

## Awards & Scholarships

NSF Graduate Research Fellowship	Fall 2023 - Present
Gates Cambridge Scholarship	Fall 2022 - Spring 2023
Fulbright US-UK Student Program (Alternate)	Fall 2022
Outstanding Graduate Student Instructor Award	Spring 2022
Foreign Language and Area Studies Fellowship	Fall 2020 - Spring 2021

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## Articles

- [1] *Quantifying the Dialect Gap in Large Language Models and its Causes Across Languages*  
Anjali Kantharuban, Ivan Vulić, Anna Korhonen  
Findings of EMNLP, 2023.
- [2] *Counting the Bugs in ChatGPT's Wugs: A Multilingual Investigation into the Morphological Capabilities of a Large Language Model*  
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